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1 What role does technology play in starting your digital media program?

Mark Thomasson, Angela Stukator, Pam Hogarth, Marty Hasselbach, Richard Weinberg

July 2005   SIGGRAPH '05: ACM SIGGRAPH 2005 Educators program

Publisher: ACM

Full text available: Pdf (48.68 KB)

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 11,   Citation Count: 0

2 Starting a university microcomputer maintenance program

Roger N. Addelson, Don M. Wee
September 1986   SIGUCCS '86: Proceedings of the 14th annual ACM SIGUCCS conference on User services: setting the direction
Publisher: ACM

Full text available: Pdf (2.73 MB)   Additional Information: full citation, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 8,   Citation Count: 1

3 Experiences in starting computer engineering programs (panel session)

Manuel D. Pérez-Quiñones, Robert Bryant, Fred Springsteel, Anne-Louise Radimsky / Daniel D. McCracken
March 2000   ACM SIGCSE Bulletin,   Volume 32 Issue 1
Publisher: ACM

Full text available: Pdf (210.42 KB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 5,   Citation Count: 0

4 Experiences in starting computer engineering programs (panel session)

Manuel D. Pérez-Quiñones, Robert Bryant, Fred Springsteel, Anne-Louise Radimsky / Daniel D. McCracken
May 2000   SIGCSE '00: Proceedings of the thirty-first SIGCSE technical symposium on Computer science education
Publisher: ACM

Full text available: Pdf (210.42 KB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 5,   Citation Count: 0

5 Termination proofs for logic programs with tabling

Sofie Verbaeten, Danny De Schreye, Konstantinos Sagonas
January   ACM Transactions on Computational Logic (TOCL),   Volume 2 Issue 1
2001
Publisher: ACM

Full text available: Pdf (293.40   Additional Information: full citation, abstract, references, cited by,
KB)   index terms, review

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 37,   Citation Count: 7

Tabled evaluation is receiving increasing attention in the logic programming
community. It avoids many of the shortcomings of SLD execution and provides a
more flexible and often considerably more efficient execution mechanism for logic
programs. In ...

Keywords: SLG-resolution, prolog, tabling

6 Dynamic slicing based on redex trails

Claudio Ochoa, Josep Silva, Germán Vidal
August   PEPM '04: Proceedings of the 2004 ACM SIGPLAN symposium on Partial
2004   evaluation and semantics-based program manipulation
Publisher: ACM

Full text available: Pdf (294.12   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 15,   Citation Count: 5

Tracing computations is a widely used methodology for program debugging. Lazy
languages, in particular, pose new demands on tracing techniques since following the
actual trace of a computation is generally useless. Typically, they rely on the ...

Keywords: lazy functional logic programming, redex trails, slicing

7 PPMexe: Program compression

Milenko Drini•, Darko Kirovski, Hoi Vo
January   ACM Transactions on Programming Languages and Systems
2007   (TOPLAS),   Volume 29 Issue 1
Publisher: ACM

Full text available: Pdf (737.17
KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 86,   Citation Count: 0

With the emergence of software delivery platforms, code compression has become an important system component that strongly affects performance. This article presents PPMexe, a compression mechanism for program binaries that analyzes their syntax and ...

Keywords: Instruction scheduling, prediction by partial matching, random access compression, software compression, software distribution

8 Toward a complete transformational toolkit for compilers

J. A. Bergstra, T. B. Dinesh, J. Field, J. Heering

September 1997   ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 19 Issue 5

Publisher: ACM

Full text available: Pdf (525.75 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 31, Citation Count: 5

PIM is an equational logic designed to function as a "transformational toolkit" for compilers and other programming tools that analyze and manipulate imperative languages. It has been applied to such problems as program slicing, symbolic ...

Keywords: compiler intermediate representation, completion, imperative language, partial evaluation, program transformation, term-rewriting

9 A logic programming approach to the verification of functional-logic programs

José Miguel Cleva, Javier Leach, Francisco J. López-Fraguas

August 2004   PPDP '04: Proceedings of the 6th ACM SIGPLAN international conference on Principles and practice of declarative programming

Publisher: ACM

Full text available: Pdf (241.10 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 15, Citation Count: 1

We address in this paper the question of how to verify program properties in modern functional logic languages, where it is allowed the presence of non-deterministic functions with call-time choice semantics. The main problem to face is that for such ...

Keywords: functional logic programming, logic programming, verification

10 Mining specifications

Glenn Ammons, Rastislav Bodík, James R. Larus
January 2002 ACM SIGPLAN Notices, Volume 37 Issue 1
Publisher: ACM

Full text available: Pdf (305.87 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 107,   Citation Count: 63

Program verification is a promising approach to improving program quality, because it can search all possible program executions for specific errors. However, the need to formally describe correct behavior or errors is a major barrier to the widespread ...

11 Mining specifications

Glenn Ammons, Rastislav Bodík, James R. Larus
January 2002   POPL '02: Proceedings of the 29th ACM SIGPLAN-SIGACT symposium on Principles of programming languages
Publisher: ACM

Full text available: Pdf (305.87 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 107,   Citation Count: 63

Program verification is a promising approach to improving program quality, because it can search all possible program executions for specific errors. However, the need to formally describe correct behavior or errors is a major barrier to the widespread ...

12 Computing education in academia: toward differentiating the disciplines

Ed Anthony
October 2003   CITC4 '03: Proceedings of the 4th conference on Information technology curriculum
Publisher: ACM

Full text available: Pdf (245.94 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 64,   Citation Count: 3

Being a fairly new discipline within academia, information technology must demonstrate its uniqueness in order to derive sufficient support to continue as an effective educational domain. A substantial part of the initial research in this area will need ...

Keywords: computer science education, computing disciplines, courses, curriculum, curriculum model, degree programs, industry needs, information systems education, information technology education, program content, program differentiation, program naming, programs

13 DESCARTES: An Automatic Programming System for Algorithmically Simple Programs

Bruno Ginoux, Jean-Luc Dormoy, Claudia Jimenez-Dominguez, Jean-Yves Lucas, Laurent Pierre
April 1998   IWSSD '98: Proceedings of the 9th international workshop on Software specification and design
Publisher: IEEE Computer Society
Full text available: Publisher Site , Pdf (78.95 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 8,   Citation Count: 0

Most research work in the field of automatic programming has been focused on conceptually complex problems. However, although most of the programs we are generally faced with may be very big and manage large volumes of data, they are conceptually simple. ...

Keywords: DESCARTES, Automatic programming, Program synthesis, Formal methods, Formal specification language, Mathematical specification, Software engineering,

14 Simulation model of the telemedicine program

J. Mauricio Lach, Ricardo M. Vázquez
December 2004 WSC '04: Proceedings of the 36th conference on Winter simulation
Publisher: Winter Simulation Conference
Full text available: Pdf (373.34 KB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 55,   Citation Count: 1

The Telemedicine Program was created to provide medical assistance to people living in extreme poverty conditions in Mexico. Through a satellite connection, a physician located in Mexico City can diagnose the patient who is physically inspected on a ...

15 Minimizing execution time in MPI programs on an energy-constrained, power-scalable cluster

Robert Springer, David K. Lowenthal, Barry Rountree, Vincent W. Freeh
March 2006   PPoPP '06: Proceedings of the eleventh ACM SIGPLAN symposium on Principles and practice of parallel programming
Publisher: ACM
Full text available: Pdf (175.01 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 78,   Citation Count: 3

Recently, the high-performance computing community has realized that power is a performance-limiting factor. One reason for this is that supercomputing centers have limited power capacity and machines are starting to hit that limit. In addition, the ...

Keywords: MPI, energy, modeling, power, prediction

16   A framework for modeling and optimization of prescient instruction prefetch

Tor M. Aamodt, Pedro Marcuello, Paul Chow, Antonio González, Per Hammarlund, Hong Wang, John P. Shen

June 2003   SIGMETRICS '03: Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems

Publisher: ACM

Full text available: Pdf (444.79 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 36, Citation Count: 2

This paper describes a framework for modeling macroscopic program behavior and applies it to optimizing prescient instruction prefetch -- novel technique that uses helper threads to improve single-threaded application performance by performing judicious ...

Keywords: analytical modeling, helper threads, instruction prefetch, multithreading, optimization, path expressions

17   On obtaining Knuth, Morris, and Pratt's string matcher by partial evaluation

Mads Sig Ager, Olivier Danvy, Henning Korsholm Rohde

September 2002   ASIA-PEPM '02: Proceedings of the ASIAN symposium on Partial evaluation and semantics-based program manipulation

Publisher: ACM

Full text available: Pdf (326.52 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 47, Citation Count: 5

We present the first formal proof that partial evaluation of a quadratic string matcher can yield the precise behaviour of Knuth, Morris, and Pratt's linear string matcher. Obtaining a KMP-like string matcher is a canonical example of partial evaluation: ...

Keywords: Knuth-Morris-Pratt string matching, data specialization, program specialization, trace semantics

18 A framework for modeling and optimization of prescient instruction prefetch

Tor M. Aamodt, Pedro Marcuello, Paul Chow, Antonio González, Per Hammarlund, Hong Wang, John P. Shen

June   ACM SIGMETRICS Performance Evaluation Review,   Volume 31 Issue 1
2003

Publisher: ACM

Full text available: Pdf (444.79 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 36,   Citation Count: 2

This paper describes a framework for modeling macroscopic program behavior and applies it to optimizing prescient instruction prefetch -- novel technique that uses helper threads to improve single-threaded application performance by performing judicious ...

Keywords: analytical modeling, helper threads, instruction prefetch, multithreading, optimization, path expressions

19 Automatic generation of efficient string matching algorithms by generalized partial computation

Yoshihiko Futamura, Zenjiro Konishi, Robert Glück

September   ASIA-PEPM '02: Proceedings of the ASIAN symposium on Partial
2002   evaluation and semantics-based program manipulation

Publisher: ACM

Full text available: Pdf (240.51 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 27,   Citation Count: 5

This paper shows that Generalized Partial Computation (GPC) can automatically generate efficient string matching algorithms. GPC is a program transformation method utilizing partial information about input data and auxiliary functions as well as the ...

Keywords: Boyer-Moore pattern matcher, Knuth-Morris-Pratt pattern matcher, automatic program generation, naive pattern matcher

20 A compositional logic for polymorphic higher-order functions

Kohei Honda, Nobuko Yoshida
August PPDP '04: Proceedings of the 6th ACM SIGPLAN international conference on
2004 Principles and practice of declarative programming
Publisher: ACM

Full text available: Pdf (201.92 KB)　　Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0,　Downloads (12 Months): 12,　Citation Count: 5

This paper introduces a compositional program logic for higher-order polymorphic functions and standard data types. The logic enables us to reason about observable properties of polymorphic programs starting from those of their constituents. Just as ...

Keywords: compositional logics, higher-order functions, polymorphim, types

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